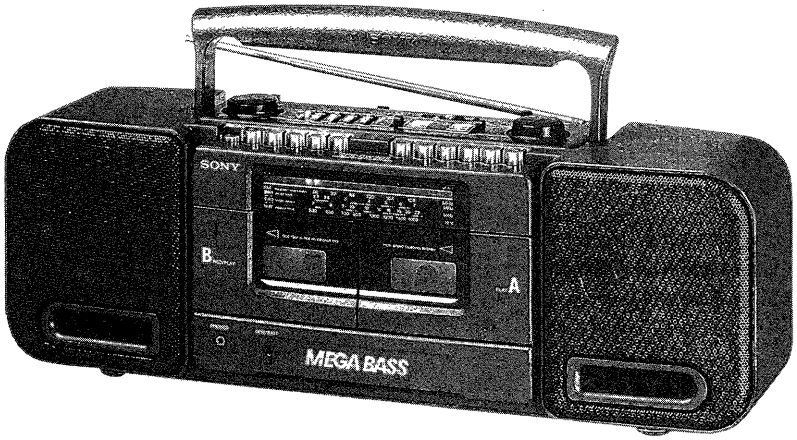
CFS-DW38S

SERVICE MANUAL

E Model



Model Name Using Similar Mechanism	CFS-DW34S
Tape Transport Mechanism Type	MF-DW38-64

SPECIFICATIONS

Tuner frequency range

Sales area	FM	MW	SW
Saudi Arabia	87.6 – 107 MHz	530 – 1605 kHz	SW1 : 2.3 – 7 MHz SW2 : 7 – 22 MHz
Other countries	87.6 – 108 MHz		

IF	10.7 kHz	455 kHz	455 KHz

Antennas: FM/SW: Telescopic antenna
MW: Built-in ferrite bar antenna

Recording system: 4 track, 2-channel stereo

Frequency response: 80 Hz –10.000 Hz

Speakers: 8 cm (3 1/4 in.) dia. full range x 2

Inputs: MIX MIC jack (monaural minijack): Sensitivity 3.09 mV, for low impedance microphone
CD/LINE IN jacks (phono jacks): Sensitivity 0.24 V, input impedance 47 kilohms

Output: Headphones jack (stereo minijack) for 16–68 ohm impedance headphones

Maximun power output: 12 W (6 W + 6 W)

Power requirements: 110 –120 V, 220 –240 V AC, adjustable, 50/60 Hz
9 V DC, six R20 (size D) batteries

Power consumption: 18 W

Battery life

Battery	FM recording
Sony SUM-1 (NS)	Approx. 9 hours
Sony AM1 (N) alkaline	Approx. 29 hours

Dimensions: Approx. 540 x 196 x 175 mm (w/h/d) (21 1/4 x 7 3/4 x 6 7/8 inches) incl. projecting parts and controls, not incl. handle

Weight: Approx. 5.3 kg (11 lb 11 oz) incl. batteries

Accessory supplied: AC power cord (1)

Optional accessories: Sony "MDR" headphone series

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

Design and specifications subject to change without notice.

RADIO CASSETTE - CORDER

SONY®

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICE NOTE

● **Note on replacing ceramic filters CF1 and CF2**

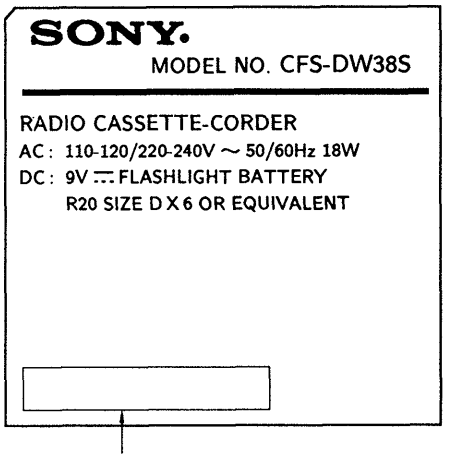
Two ceramic filters whitch have the same center frequency are included in the part whose part No. is 1-567-166-00.

- For CF1 (FM IF) ····· 3 leads
- For CF2 (FM discriminator) ····· 2 leads

when replacing CF1 or CF2, be sure to replace both of them with new parts.

MODEL IDENTIFICATION

E Model : Carved on rear cabinet
Saudi Arabia Model : Model number label


SONY.
MODEL NO. CFS-DW38S
RADIO CASSETTE-CORDER
AC : 110-120/220-240V ~ 50/60Hz 18W
DC : 9V ⎓ FLASHLIGHT BATTERY
R20 SIZE D X 6 OR EQUIVALENT

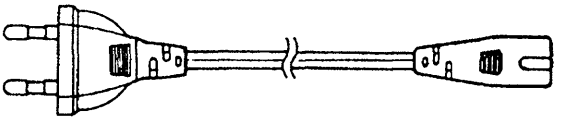
E Model: SONY CORP.
Saudi Arabia Model: Made in Malaysia under license from SONY CORP. TOKYO JAPAN

● There are 2 types of models, E12 and E23 in E model. E12 can be distinguished from E23 by its AC cord as illustrated below.

- AC Cord -

E12 Model

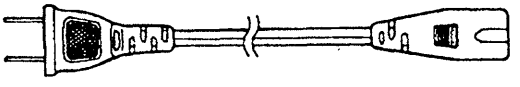
Euro-plug



E23 Model

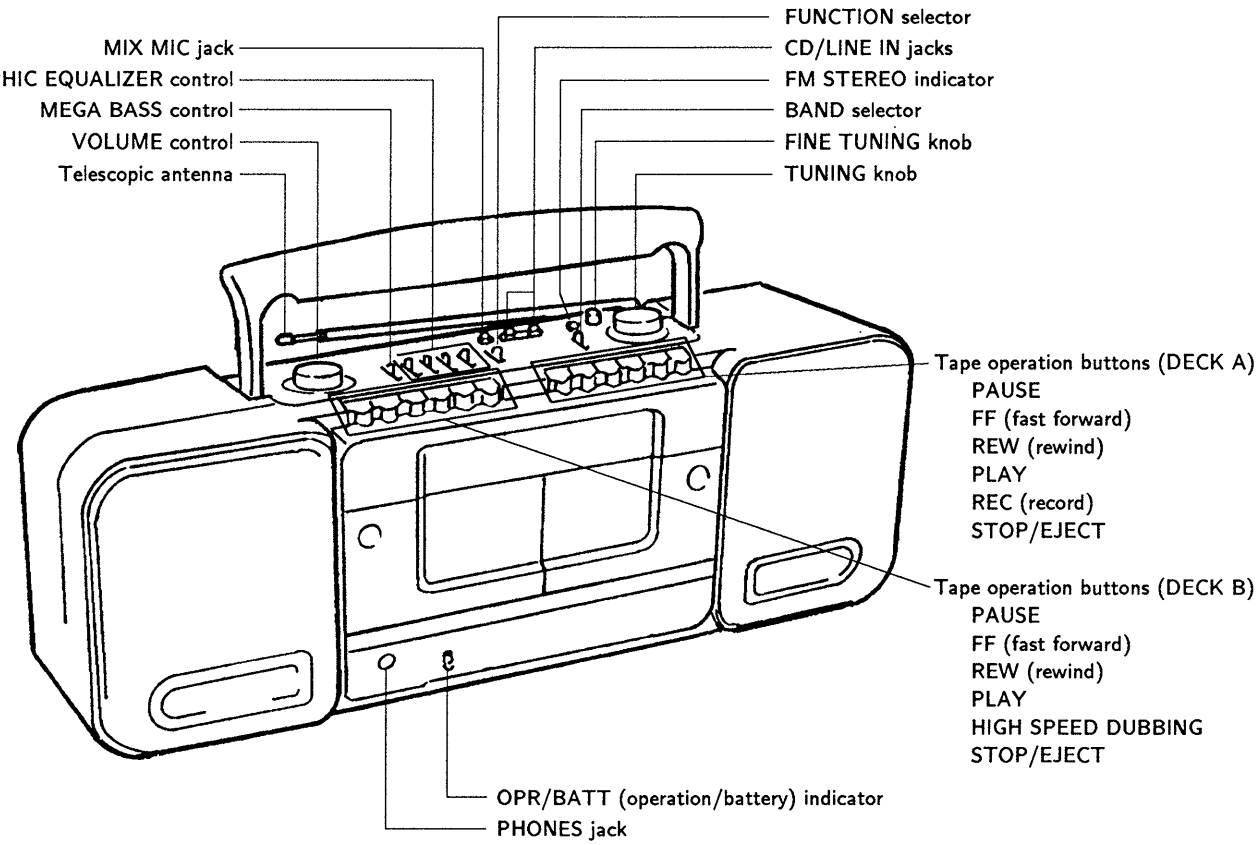
(AC plug adaptor is supplied)

Parallel-blade plug



SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS



SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

2-1. REMOVAL OF REAR CABINET ASSEMBLY.

1. Remove 9pcs. of the screw BV3×14 marked ❶ and 1 pc. of the screw P3×18 marked ❷.
2. Remove the rear cabinet assy to the arrow Ⓐ direction as show in fig. 1.

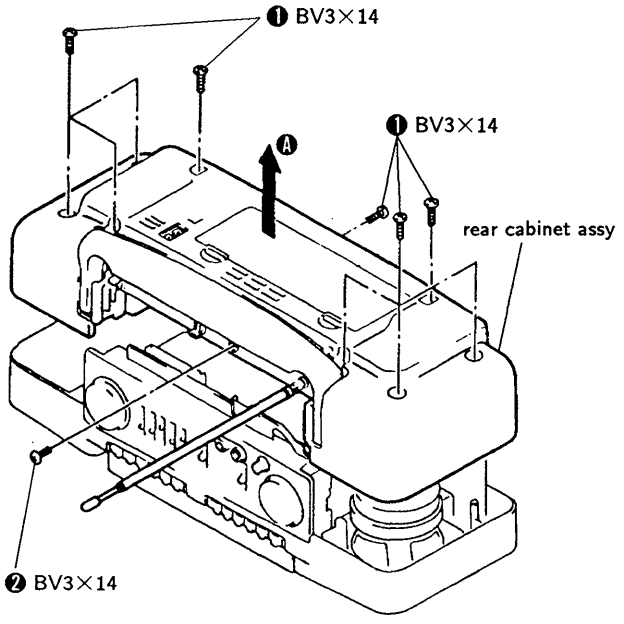


Fig. 1

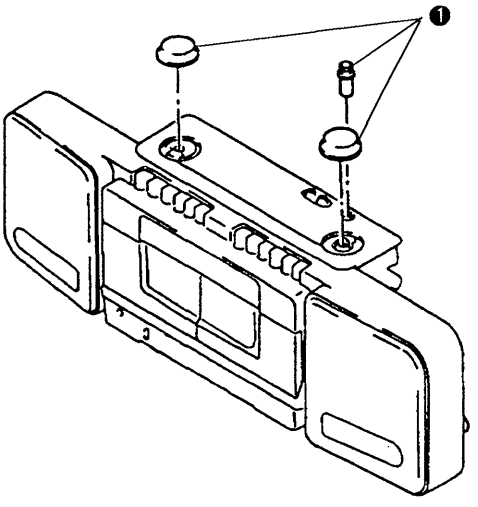


Fig. 2

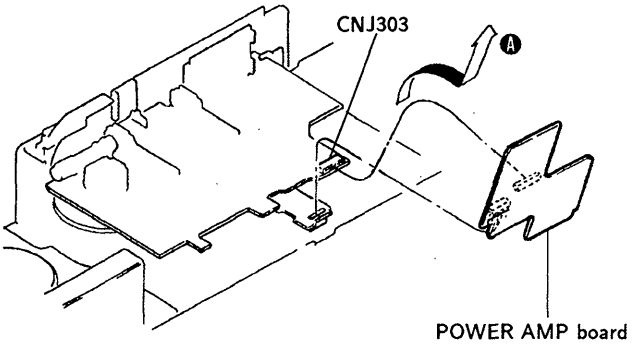


Fig. 3

2-2. REMOVAL OF THE MAIN BOARD AND MD ASSEMBLY.

1. Remove the knob's as show in fig. 2.
2. Remove the power amp board from CNJ303 connector's to the arrow Ⓐ direction as show in fig. 3.
3. Pull the claw (marked ❷) to Ⓑ direction and remove the VR board from claw (marked ❷).
4. Push the claw (marked ❸) to Ⓒ direction and remove the main board from claw (marked ❸).
5. Pull the main board and the VR board toward Ⓓ direction and remove them as show in fig. 4.
6. Remove 6pcs. of the screw BV3×12 marked ❹.
7. Open the cassette lid.
8. Lift up the MD assy toward Ⓔ direction and remove it as show in fig. 5.

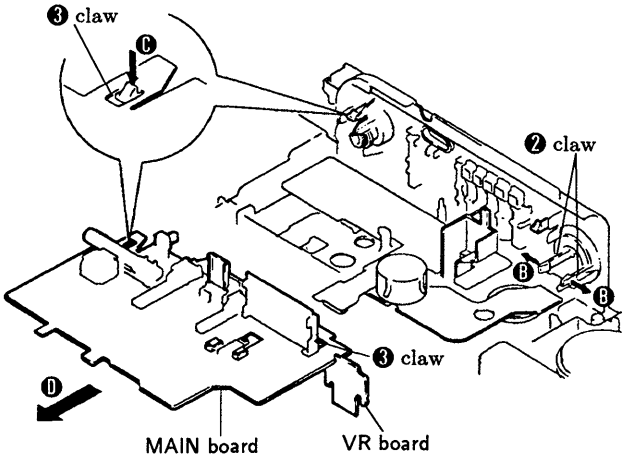


Fig. 4

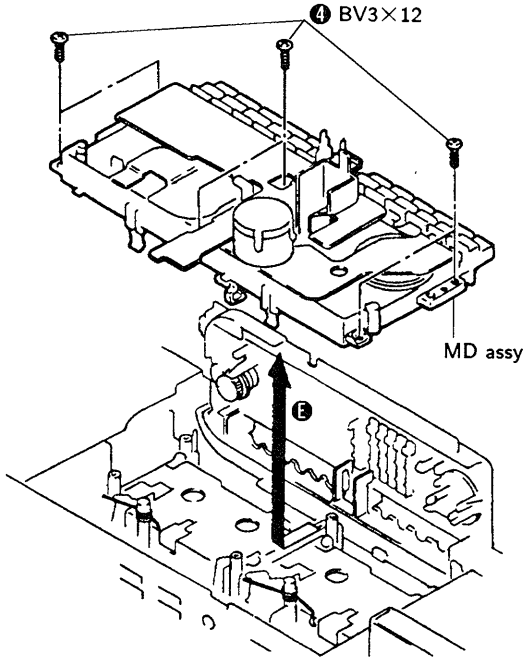


Fig. 5

2-3. REMOVAL OF UPPER CABINET ASSEMBLY.

1. Pull the claw toward Ⓐ direction and remove the claw from the front cabinet.
2. Lift up the upper cabinet assy toward Ⓑ direction as show in fig. 6.

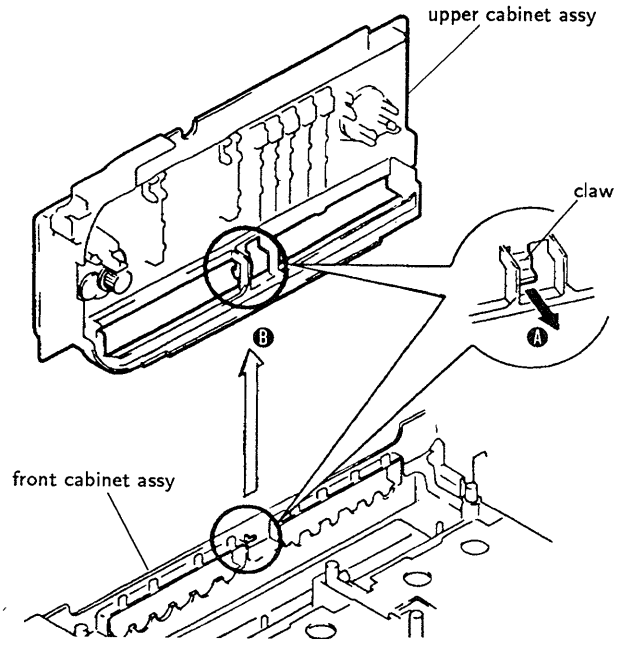


Fig. 6

DIAL POINTER SETTING

1. Turn the VC drum toward Ⓐ direction fully.
2. Set a notch of the dial pointer on the center line in among the three lines which in marked on the upper cabinet as show in fig. 7.
3. Insert the main board into the upper cabinet at the above condition.

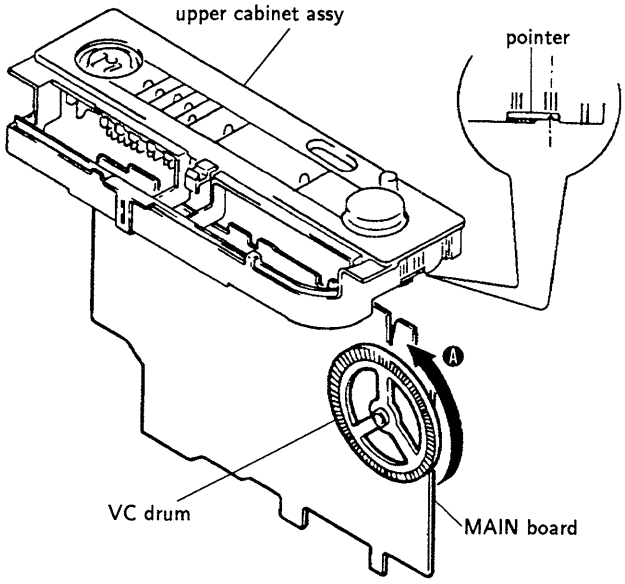


Fig. 7

SECTION 3
MECHANICAL CHECKING

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab :
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (9V dc) unless otherwise noted.

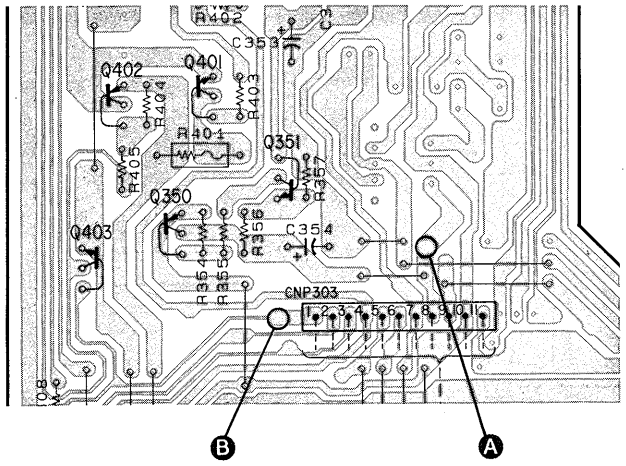
Torque Measurement

Mode	Torque meter	Meter reading
Forward	CQ-102C	20 - 60 g-cm (0.28 - 0.83 oz-inch)
Forward Back Tension		2 - 6 g-cm (0.028 - 0.083 oz-inch)
Fast Forward	CQ-201B	more than 45 g-cm (more than 0.63 oz-inch)
Rewind		

Tape Tension Measurement

Mode	Torque meter	Meter reading
Forward	CQ-403A	more than 70 g (more than 2.47 oz)

【POWER AMP BOARD】 (CONDUCTOR SIDE)



SECTION 4
ELECTRICAL ADJUSTMENTS

4-1. TAPE RECORDER SECTION

Standard Input Level

Input terminal	LINE IN	MIX MIC
source impedance	10kΩ	300Ω
input signal level	0.25V (−10dB)	2.45mV (−50dB)

Standard Output Level

Output terminal	SP OUT	HP OUT
load impedance	6Ω	32Ω
output signal level	0.775V (0dB)	0.25V (−10dB)

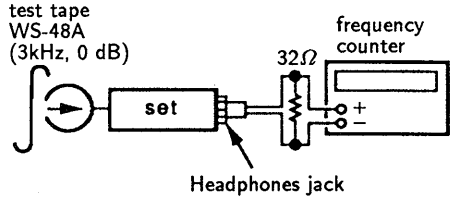
Test Tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

Tape Speed Adjustment DECK A DECK B

Procedure :

Mode : playback



How to set the high speed playback mode :

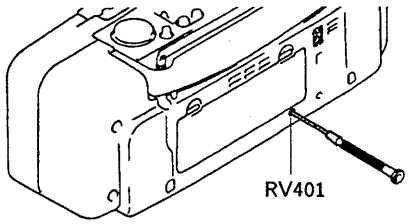
Shorted Ⓐ part and Ⓑ part show in below drawing and push the play ► button.

Note : Do not forget to remove Ⓐ part and Ⓑ part after checked.

Speed	Deck	Adjustment point	Frequency counter
Normal	A	RV401	2,970—3,000Hz
	B	confirm	2,955—3,015Hz
High	A	confirm	5,400—6,300Hz
	B	confirm	

Frequency difference between the begining and the end of the tape should be within ±1.5%.

Adjustment Location :

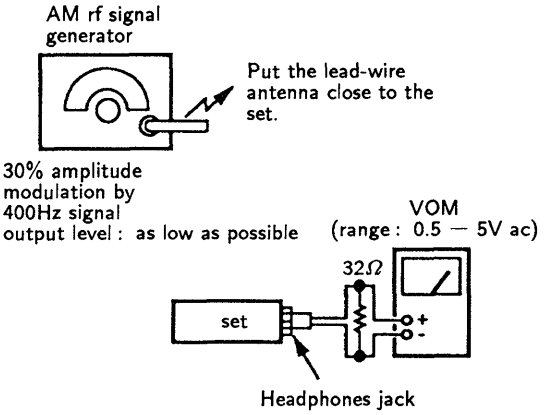


4-2. RADIO SECTION

● MW Section

BAND switch : MW

FINE TUNING control : mechanical center


AM rf signal generator
Put the lead-wire antenna close to the set.
30% amplitude modulation by 400Hz signal
output level : as low as possible
VOM
(range : 0.5 — 5V ac)
32Ω
set
Headphones jack

• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM(MW/SW) IF Adjustment

signal generator frequency	Adjustment part	Reading on VOM
455kHz	T1	maximum

MW Frequency Coverage Adjustment

Pointer position	signal generator frequency	Adjustment part	Reading on VOM
f minimum	520kHz	L4	maximum
f maximum	1,680kHz	CT4	

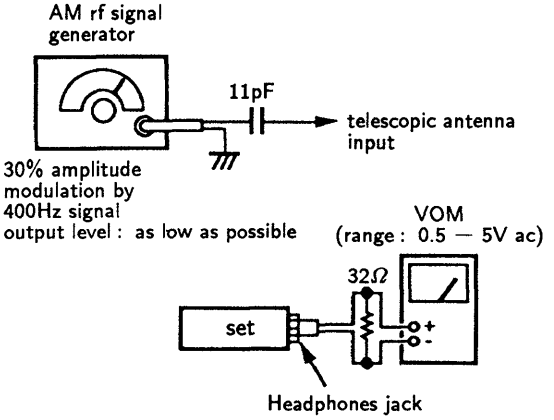
MW Tracking Adjustment

signal generator and set frequency	Adjustment part	Reading on VOM
600kHz	L3	maximum
1,400kHz	CT3	

● SW Section

BAND switch : SW

FINE TUNING control : mechanical center



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

SW1 Frequency Coverage Adjustment

Pointer position	signal generator frequency	Adjustment part	Reading on VOM
f minimum	2.2MHz	L6	maximum
f maximum	7.3MHz	CT6	

SW1 Tracking Adjustment

signal generator and set frequency	Adjustment part	Reading on VOM
3MHz	L5	maximum

SW2 Frequency Coverage Adjustment

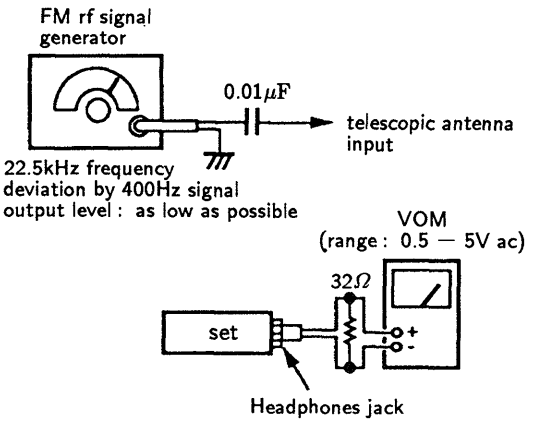
Pointer position	signal generator frequency	Adjustment part	Reading on VOM
f minimum	6.8MHz	L8	maximum
f maximum	22.5MHz	CT8	

SW2 Tracking Adjustment

signal generator and set frequency	Adjustment part	Reading on VOM
8MHz	L7	maximum

● FM Section

BAND switch : FM



• Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM Frequency Coverage Adjustment

Pointer position	signal generator frequency	Adjustment part	Reading on VOM
f minimum	86.5MHz (87.35MHz)	L2 (L21)	maximum
f maximum	109.5MHz (107.8MHz)	CT2	

( ) : Saudi Arabia model

FM Tracking Adjustment

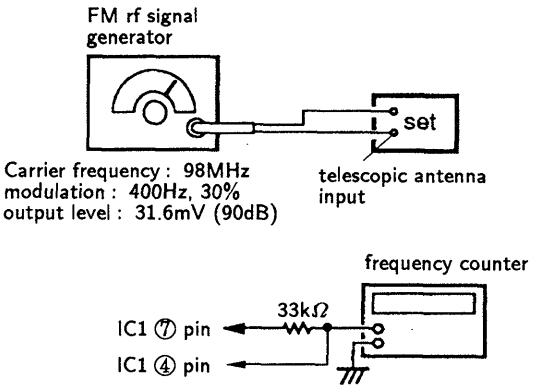
signal generator and set frequency	Adjustment part	Reading on VOM
86.5MHz (87.35MHz)	L1	maximum
109.5MHz (107.8MHz)	CT1	

( ) : Saudi Arabia model

VCO Adjustment

A) Regular Method

Procedure :

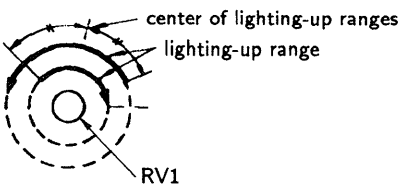


1. Connect frequency counter to te positions shown above.
2. Tune the set to 98MHz.
3. Set the input level to 31.6mV (90dB) and modulation to OFF.
4. Adjust RV1 for 76kHz±500Hz reading on the frequency counter.

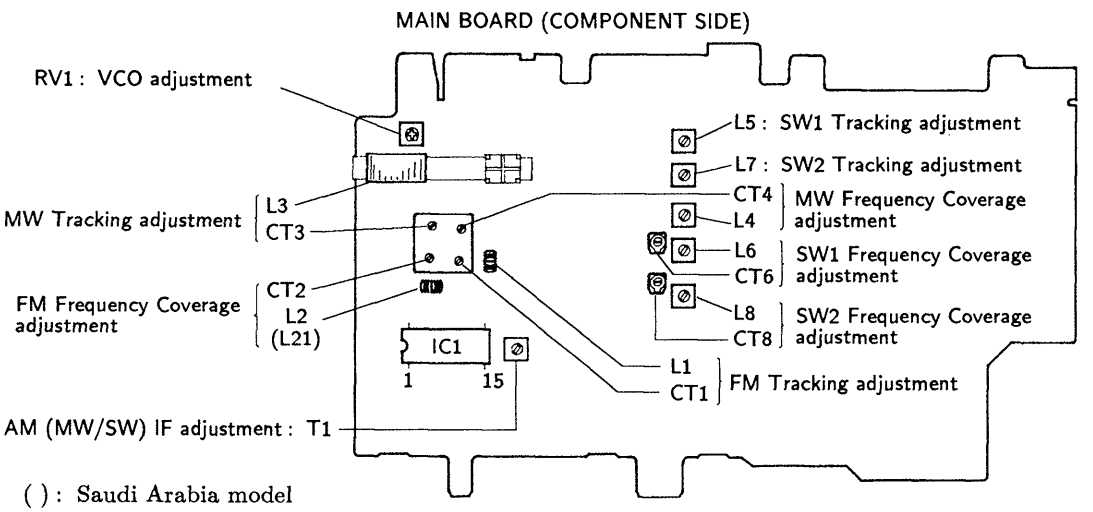
B) Simple Methode

Procedure :

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV1 clockwise or counterclockwise and memorize the lighting-up range of the FM STEREO lamp.
3. Secure RV1 at the center of the lighting-up range of both turns as shown below.



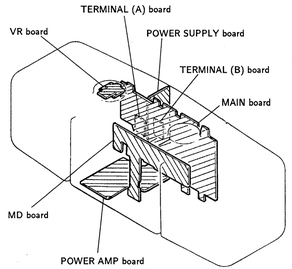
Adjustment Location :



( ) : Saudi Arabia model

SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



5-2. SEMICONDUCTOR LEAD LAYOUTS

LA4598

2SC945-P
2SC1815-Y

RD6.8ES-B2
RD8.2ES-B1
1SS119

RN1202
RN1210
RN2202

2SD1266-Q

RL202-M11

2SK105A-30

2SA952-K2

MVR3338S

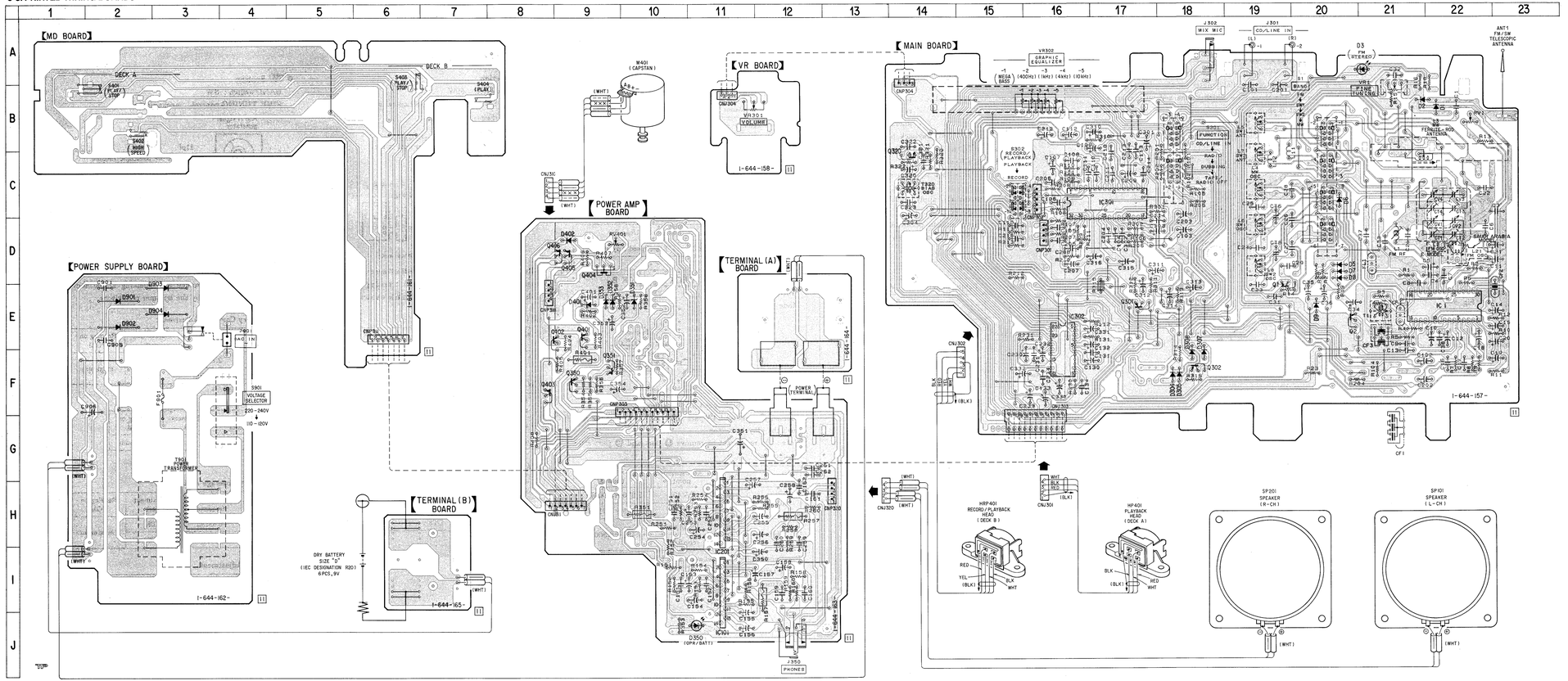
● SEMICONDUCTOR LOCATION

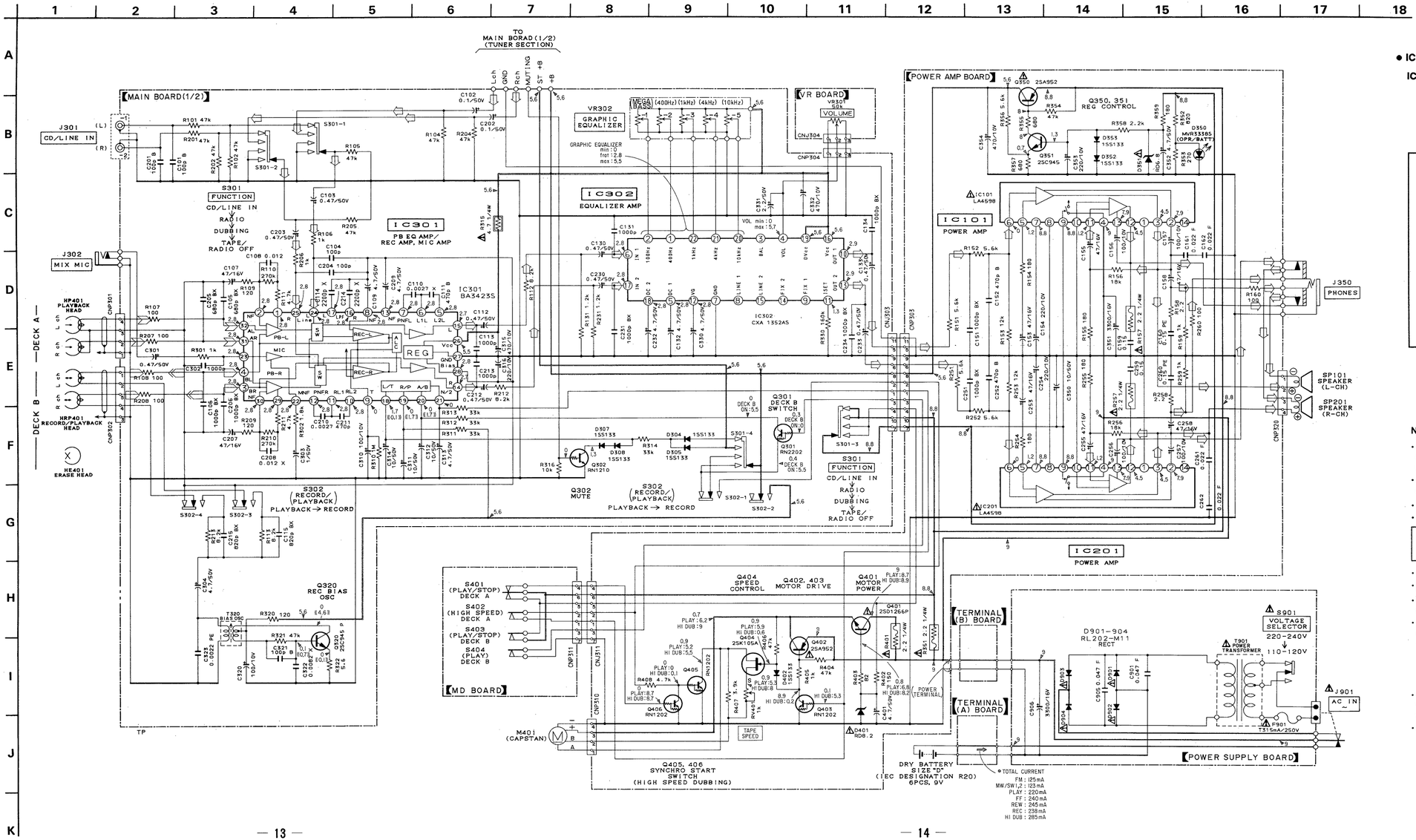
Ref. No.	Location
D1	B - 22
D2	B - 21
D3	A - 21
D5	D - 20
D6	C - 20
D7	D - 20
D8	D - 20
D9	E - 20
D304	F - 18
D305	F - 18
D307	F - 18
D308	F - 18
D350	J - 11
D351	E - 10
D352	E - 9
D353	E - 9
D401	E - 9
D402	D - 9
D901	E - 2
D902	E - 2
D903	E - 3
D904	E - 3
IC1	E - 22
IC101	I - 11
IC201	H - 11
IC301	C - 17
IC302	E - 16
Q1	E - 19
Q2	E - 20
Q301	E - 17
Q302	F - 18
Q320	C - 14
Q350	F - 9
Q351	F - 9
Q401	E - 9
Q402	E - 9
Q403	F - 8
Q404	D - 9
Q405	D - 9
Q406	D - 9

Note:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▒▒ : Pattern on the side which is seen.

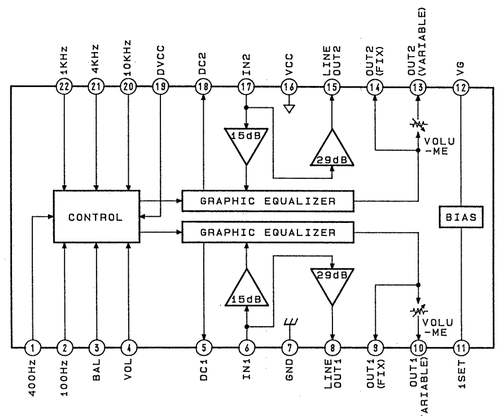
5-3. PRINTED WIRING BOARDS





● IC BLOCK DIAGRAMS

IC302 CXA1352AS



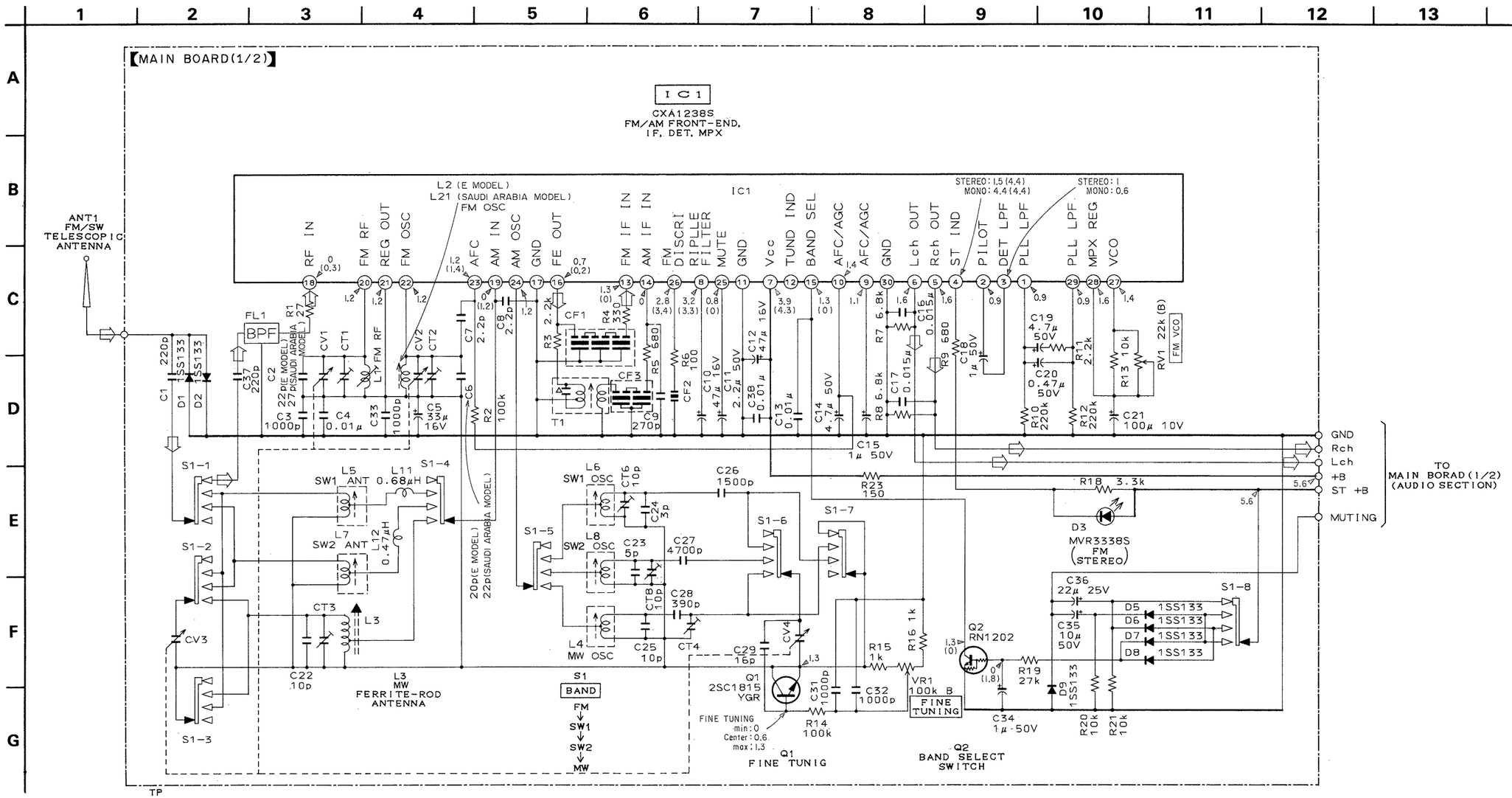
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

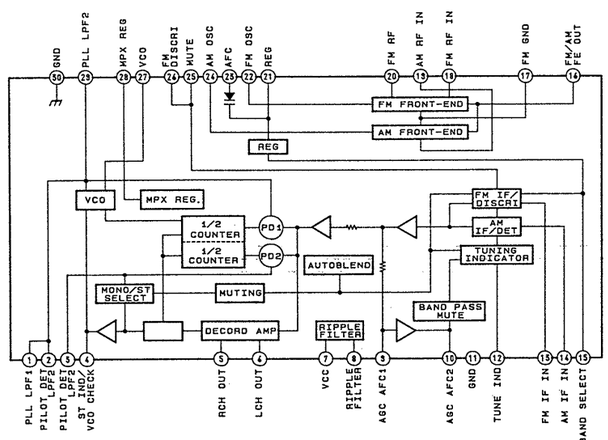
- : B+ Line
- : adjustment for repair.
- Power voltage is dc 9V and fed with regulated dc power supply from power terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM (MW, SW1, SW2)
  (( )) : REC (DECK B)
  HI DUB : HIGH SPEED DUBBING
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB (DECK A)
  ⇨ : PB (DECK B)
  ⇨ : REC (DECK B)

5-5. SCHEMATIC DIAGRAM – TUNER SECTION –



● IC BLOCK DIAGRAMS

IC1 CXA1238S



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- ▭ : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 9V and fed with regulated dc power supply from power terminal.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM (MW, SW1, SW2)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM

SECTION 6
EXPLODED VIEWS

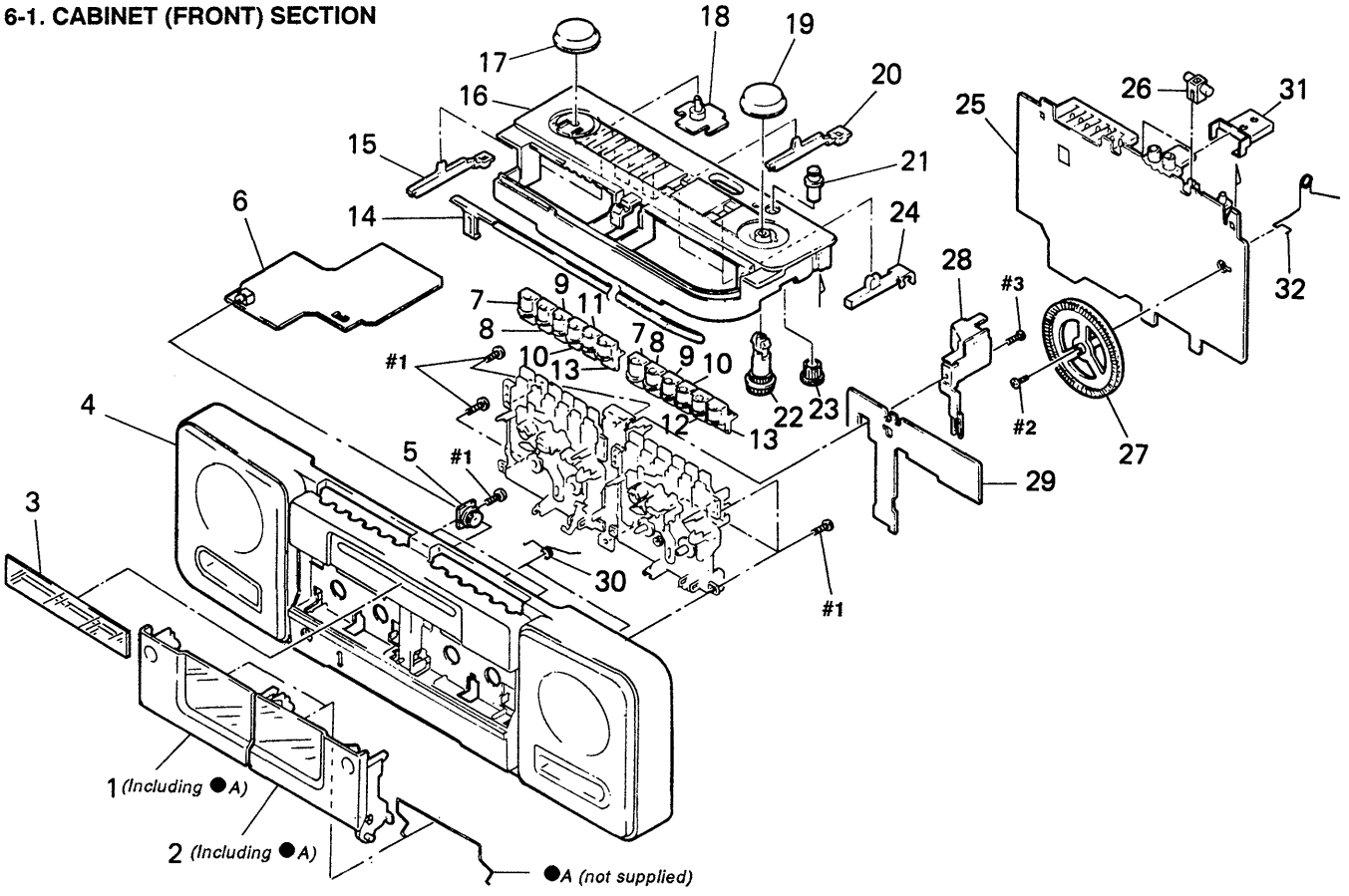
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Color indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE).... (RED)
  ↑ Parts color ↑ Cabinet's color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

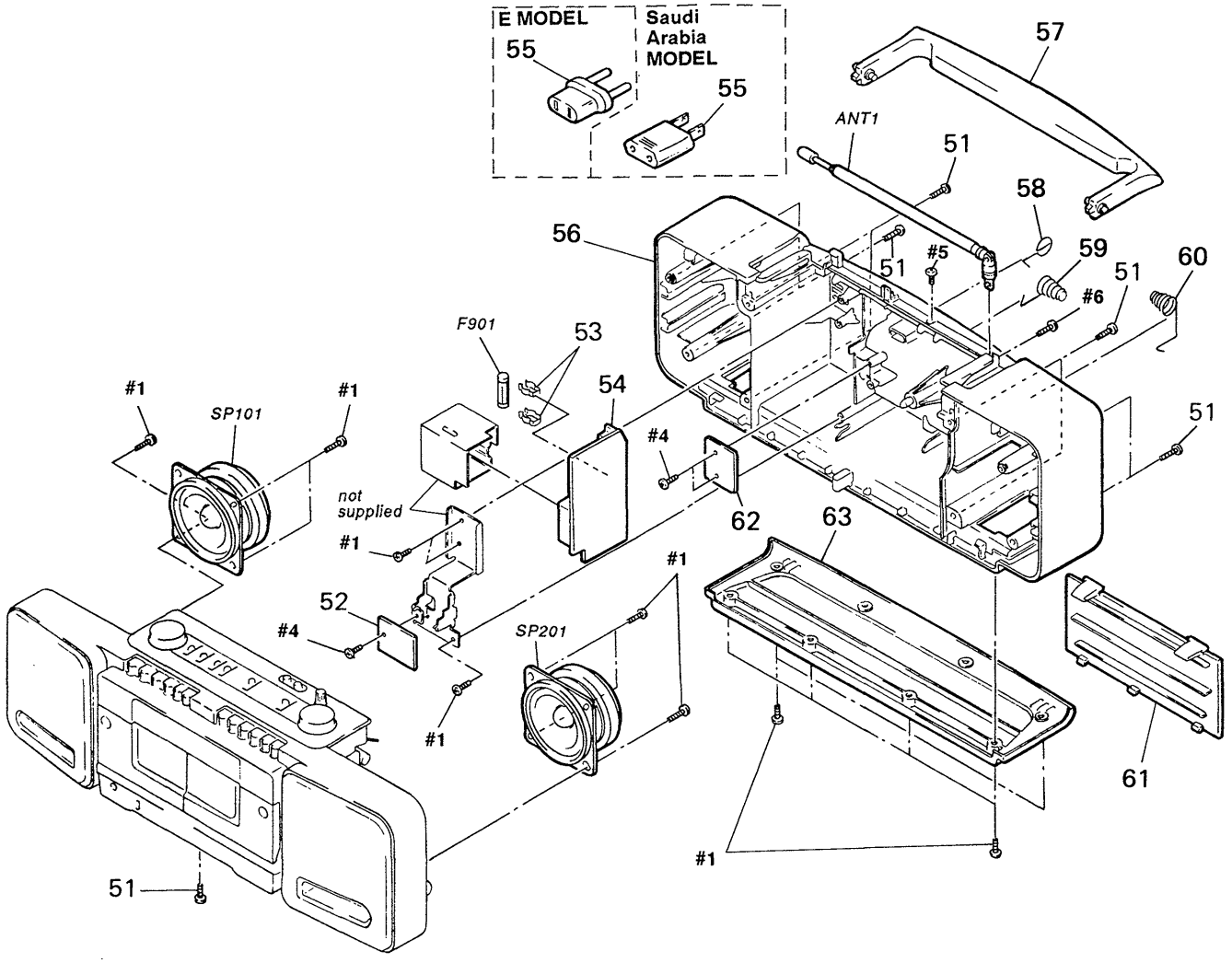
When indicating parts by reference number, please include the board.

6-1. CABINET (FRONT) SECTION



Ref. No.	Part No.	Description	Remark
1	A-3253-494-A	HOLDER (B) ASSY, CASSETTE	
2	A-3253-493-A	HOLDER (A) ASSY, CASSETTE	
3	3-379-574-01	PANEL, DIAL (E)	
3	3-379-574-11	PANEL, DIAL (Saudi Arabia)	
4	A-3253-492-A	CABINET (FRONT) SUB ASSY	
5	3-351-377-11	DAMPER	
* 6	A-3262-413-A	POWER AMP BOARD, COMPLETE	
7	3-379-600-11	BUTTON (PAUSE)	
8	3-379-599-11	BUTTON (FF)	
9	3-379-598-11	BUTTON (REW)	
10	3-379-597-11	BUTTON (PLAY)	
11	3-379-594-11	BUTTON (REC)	
12	3-379-595-11	BUTTON (H.D)	
13	3-379-593-11	BUTTON (S/E)	
14	3-379-591-01	POINTER	
15	3-379-587-11	KNOB (GEQ) (YELLOW)	
16	3-379-585-01	CABINET (UPPER)	
17	3-379-573-01	KNOB (VOL)	
* 18	1-644-158-11	VR BOARD	
19	3-379-592-01	KNOB (TUN)	
20	3-379-587-01	KNOB (GEQ) (BLACK)	
21	3-379-571-01	KNOB (F.T)	
22	3-379-596-01	SHAFT (TUN)	
23	3-379-589-01	GEAR (A)	
24	3-379-588-01	KNOB (FUNCTION)	
* 25	A-3262-411-A	MAIN BOARD, COMPLETE (E)	
* 25	A-3262-691-A	MAIN BOARD, COMPLETE (Saudi Arabia)	
* 26	3-379-604-01	BRACKET (SW)	
27	3-379-605-01	DRUM, VC	
28	3-379-601-01	LEVER (REC)	
* 29	1-644-161-11	MD BOARD	
30	3-379-578-01	SPRING (H)	
* 31	3-379-603-01	BRACKET (MAIN)	
* 32	3-379-607-01	TERMINAL, ANTENNA	

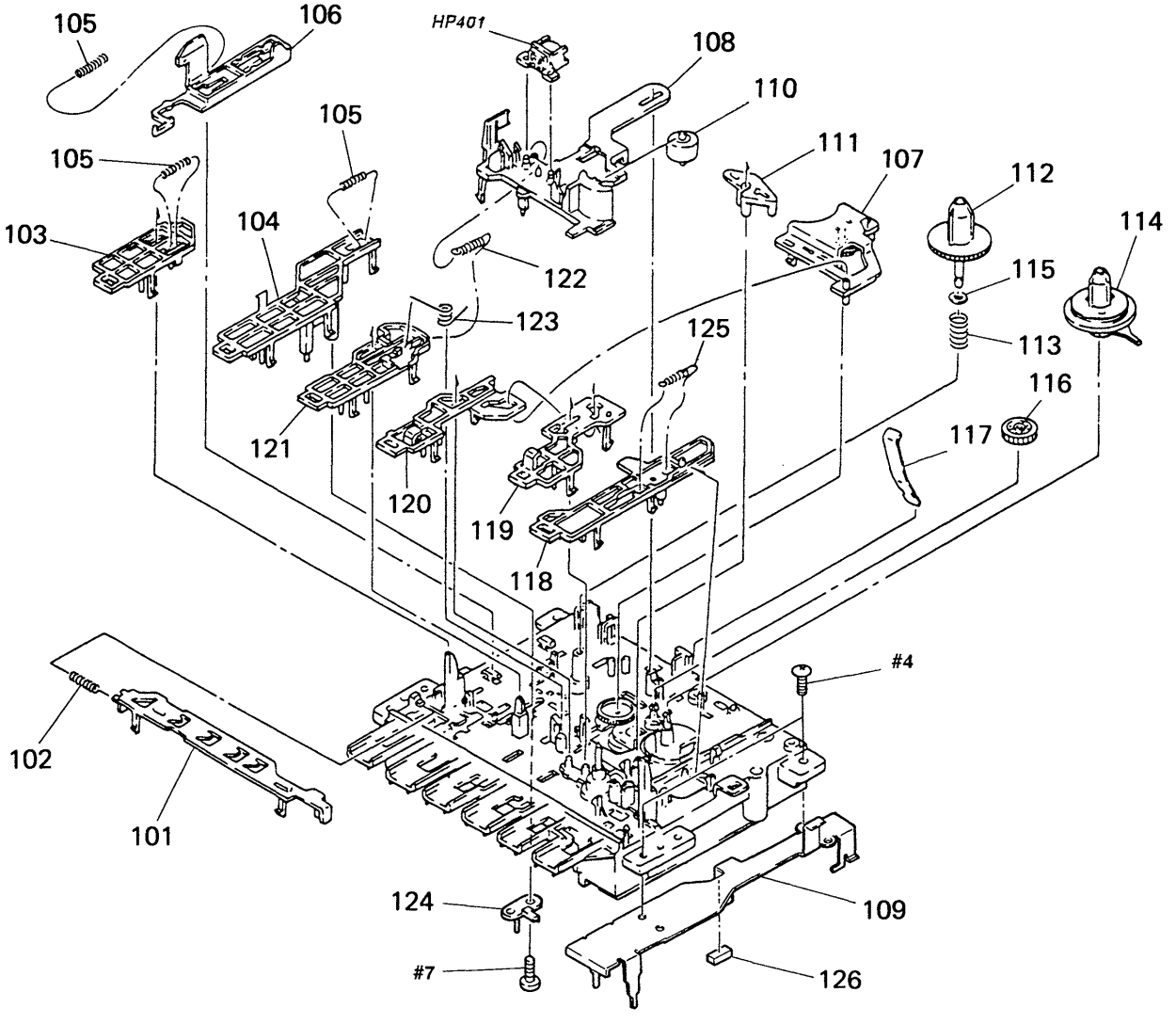
6-2. CABINET (REAR) SECTION



Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
51	3-325-679-31	SCREW, TAPPING +BV 3X14	
* 52	1-644-164-11	TERMINAL (A) BOARD	
53	1-533-217-31	HOLDER, FUSE	
* 54	1-644-162-11	POWER SUPPLY BOARD	
⚠55	1-569-007-11	ADAPTER, CONVERSION 2P (E23)	
⚠55	1-569-008-11	ADAPTER, CONVERSION 2P (Saudi Arabia)	
56	3-379-567-01	CABINET (REAR) (E)	
56	3-379-567-11	CABINET (REAR) (Saudi Arabia)	
57	A-3253-898-A	HANDLE ASSY	
58	3-379-575-01	TERMINAL (+), BATTERY	
59	3-379-576-01	TERMINAL (-), BATTERY	
60	3-364-532-01	TERMINAL (+, -), BATTERY	
61	3-379-569-01	LID, BATTERY CASE	
* 62	1-644-165-11	TERMINAL (B) BOARD	
63	3-379-568-01	CABINET (LOWER)	
ANT1	1-501-480-11	ANTENNA, TELESCOPIC	
⚠F901	1-532-235-00	FUSE, TIME LAG (T315mA/250V)	
SP101	1-504-134-11	SPEAKER (8CM)	
SP201	1-504-134-11	SPEAKER (8CM)	

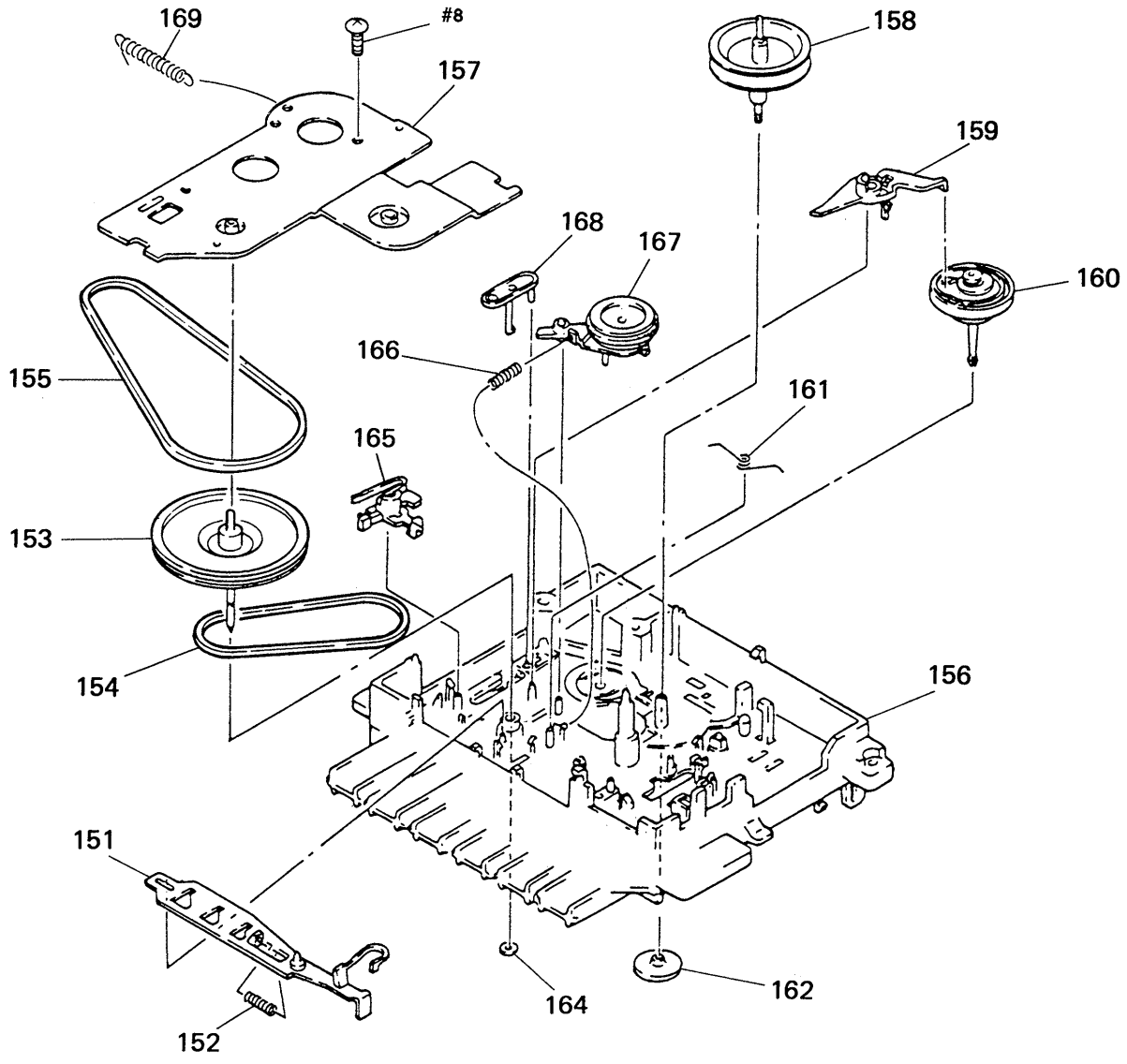
6-3. DECK A TAPE MECHANISM (1)
(MF-DW38-64)



Ref. No.	Part No.	Description	Remark
101	4-932-695-01	SLIDER (FR), LOCK	
102	4-932-656-01	SPRING, COMPRESSION	
103	4-928-985-01	LEVER, STOP	
104	4-921-195-01	LEVER (AC), REC	
105	4-932-648-01	SPRING, COMPRESSION	
106	4-936-206-01	SLIDER (S), EJECT	
107	X-4920-347-1	LEVER (S) ASSY, FR	
108	4-928-998-01	DECK (S), HEAD	
109	3-380-160-01	JOINT (MD)	
110	4-928-962-01	PINCH ROLLER	
111	4-928-982-01	LEVER (C)	
112	4-928-978-01	GEAR (C), SUPPLY REEL	
113	3-343-381-01	SPRING, COMPRESSION	
114	X-4920-350-1	GEAR (S) ASSY, T REEL	

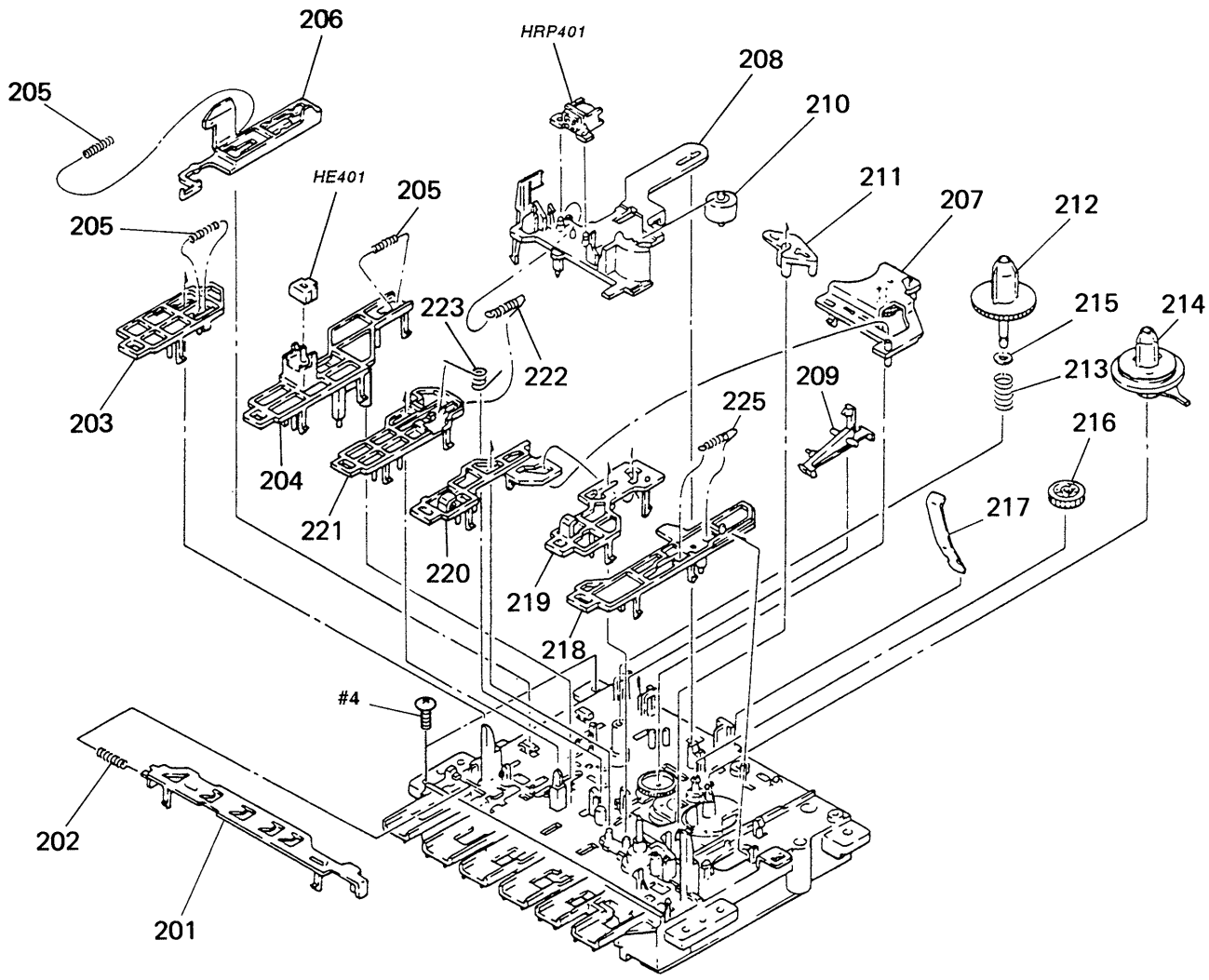
Ref. No.	Part No.	Description	Remark
115	4-931-795-11	WASHER	
116	3-343-285-01	GEAR, FF	
117	4-928-957-01	RETAINER, CASSETTE	
118	4-928-994-01	LEVER, PAUSE	
119	4-928-993-01	LEVER, FF	
120	4-928-992-01	LEVER, REW	
121	4-928-991-01	LEVER, PLAY	
122	4-928-972-01	SPRING, TENSION	
123	4-928-973-01	SPRING	
124	4-928-976-01	LEVER, SW	
125	3-313-372-01	SPRING, TENSION	
126	4-934-522-01	CUSHION	
HP401	1-543-714-11	HEAD, MAGNETIC (PB)	

6-4. DECK A TAPE MECHANISM (2)
(MF-DW38-64)



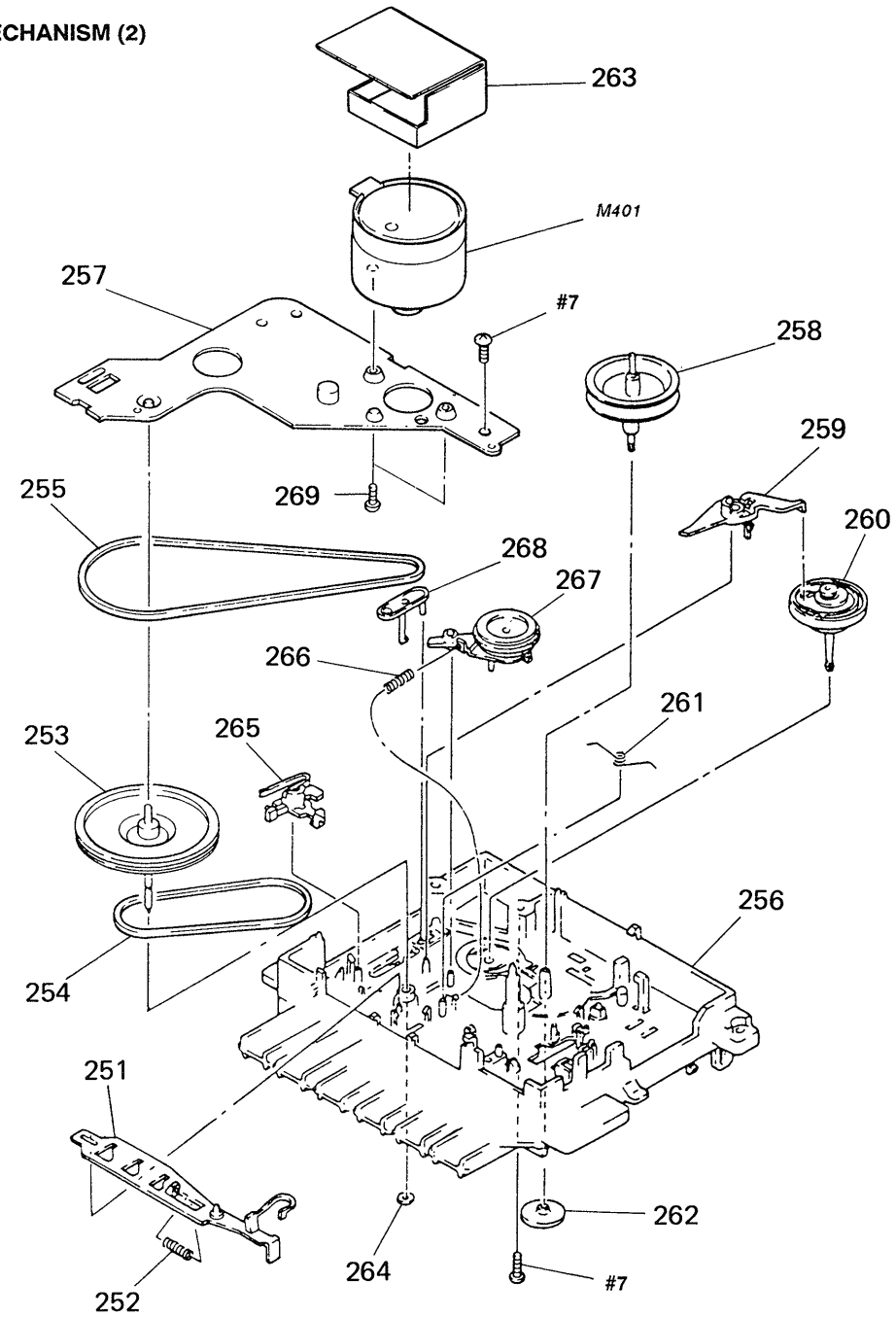
Ref. No.	Part No.	Description	Remark
151	4-928-996-11	LEVER, SW	
152	4-932-656-01	SPRING, COMPRESSION	
153	X-4920-923-1	WHEEL (W) ASSY, CAPSTAN	
154	4-928-974-01	BELT (MIDWAY)	
155	3-378-419-01	BELT (CAPSTAN) (DECK A)	
156	X-4920-348-1	CHASSIS (S) ASSY, MECHANICAL	
* 157	X-4918-598-1	PLATE ASSY, GROUND	
158	X-4920-922-1	PULLEY (W) ASSY, FR	
159	4-928-986-01	LEVER (S), SHUT-OFF	
160	X-4918-582-1	PLATE ASSY, TAKE-UP REEL	
161	4-928-958-01	SPRING, FR RETURN	
162	4-928-967-01	GEAR (C), MIDWAY	
164	3-343-358-01	RING, RETAINING	
165	4-928-987-01	LEVER (T), SHUT-OFF	
166	4-932-655-01	SPRING, COMPRESSION	
167	X-4920-346-1	LEVER (S) ASSY, IDLER	
168	4-928-961-01	PLATE, PAUSE LOCK	
169	3-378-420-01	SPRING, TENSION	

6-5. DECK B TAPE MECHANISM (1) (MF-DW38-64)



Ref. No.	Part No.	Description	Remark
201	4-932-695-01	SLIDER (FR), LOCK	
202	4-932-656-01	SPRING, COMPRESSION	
203	4-928-985-01	LEVER, STOP	
204	4-934-511-01	LEVER (S), REC	
205	4-932-648-01	SPRING, COMPRESSION	
206	4-936-206-01	SLIDER (S), EJECT	
207	X-4920-347-1	LEVER (S) ASSY, FR	
208	4-928-998-01	DECK (S), HEAD	
209	4-928-960-02	CLAW, SAFETY	
210	4-928-962-01	PINCH ROLLER	
211	4-928-982-01	LEVER (C)	
212	4-928-978-01	GEAR (C), SUPPLY REEL	
213	3-343-381-01	SPRING, COMPRESSION	
214	X-4920-350-1	GEAR (S) ASSY, T REEL	
215	4-931-795-11	WASHER	
216	3-343-285-01	GEAR, FF	
217	4-928-957-01	RETAINER, CASSETTE	
218	4-928-994-01	LEVER, PAUSE	
219	4-928-993-01	LEVER, FF	
220	4-928-992-01	LEVER, REW	
221	4-928-991-01	LEVER, PLAY	
222	4-928-972-01	SPRING, TENSION	
223	4-928-973-01	SPRING	
225	3-313-372-01	SPRING, TENSION	
HE401	1-543-525-11	HEAD, MAGNETIC (ERASE)	
HRP401	1-543-628-11	HEAD, MAGNETIC (REC/PB)	

6-6. DECK B TAPE MECHANISM (2)
(MF-DW38-64)



Ref. No.	Part No.	Description	Remark
251	4-928-996-11	LEVER, SW	
252	4-932-656-01	SPRING, COMPRESSION	
253	X-4920-923-1	WHEEL (W) ASSY, CAPSTAN	
254	4-928-974-01	BELT (MIDWAY)	
255	3-369-312-01	BELT (59X1) (CAPSTAN) (DECK B)	
256	X-4920-348-1	CHASSIS (S) ASSY, MECHANICAL	
257	X-4920-921-1	PLATE (W) ASSY, GROUND	
258	X-4920-922-1	PULLEY (W) ASSY, FR	
259	4-928-986-01	LEVER (S), SHUT-OFF	
260	X-4918-582-1	PLATE ASSY, TAKE-UP REEL	
261	4-928-958-01	SPRING, FR RETURN	
262	4-928-967-01	GEAR (C), MIDWAY	
263	3-379-602-01	PLATE (M), SHIELD	
264	3-343-358-01	RING, RETAINING	
265	4-928-987-01	LEVER (T), SHUT-OFF	
266	4-932-655-01	SPRING, COMPRESSION	
267	X-4920-346-1	LEVER (S) ASSY, IDLER	
268	4-928-961-01	PLATE, PAUSE LOCK	
269	3-343-251-01	SCREW (M2.6X2.5)	
M401	X-4920-924-1	MOTOR ASSY	

SECTION 7
ELECTRICAL PARTS LIST

MAIN

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-3262-411-A	MAIN BOARD, COMPLETE (E)			
*	A-3262-691-A	MAIN BOARD, COMPLETE (Saudi Arabia)			
		**********			
*	3-379-603-01	BRACKET (MAIN)			
*	3-379-604-01	BRACKET (SW)			
	3-379-605-01	DRUM, VC			
*	3-379-607-01	TERMINAL, ANTENNA			
	7-621-770-67	SCREW +P 2.6X6			
		< CAPACITOR >			
C1	1-162-286-31	CERAMIC	220PF	10%	50V
C2	1-162-207-31	CERAMIC	22PF	5%	50V(E)
C2	1-162-209-31	CERAMIC	27PF	5%	50V (Saudi Arabia)
C3	1-162-294-31	CERAMIC	0.001uF	10%	50V
C4	1-161-379-00	CERAMIC	0.01uF	20%	25V
C5	1-124-034-51	ELECT	33uF	20%	16V
C6	1-102-958-00	CERAMIC	20PF	5%	50V (E)
C6	1-102-959-00	CERAMIC	22PF	5%	50V (Saudi Arabia)
C7	1-162-191-31	CERAMIC	2.2PF	10%	50V
C8	1-162-191-31	CERAMIC	2.2PF	10%	50V
C9	1-162-287-31	CERAMIC	270PF	10%	50V
C10	1-124-477-11	ELECT	47uF	20%	25V
C11	1-124-925-11	ELECT	2.2uF	20%	100V
C12	1-124-477-11	ELECT	47uF	20%	25V
C13	1-161-379-00	CERAMIC	0.01uF	20%	25V
C14	1-124-927-11	ELECT	4.7uF	20%	100V
C15	1-124-903-11	ELECT	1uF	20%	50V
C16	1-161-053-00	CERAMIC	0.015uF	10%	50V
C17	1-161-053-00	CERAMIC	0.015uF	10%	50V
C18	1-124-903-11	ELECT	1uF	20%	50V
C19	1-124-927-11	ELECT	4.7uF	20%	100V
C20	1-124-902-00	ELECT	0.47uF	20%	50V
C21	1-124-443-00	ELECT	100uF	20%	10V
C22	1-162-199-31	CERAMIC	10PF	5%	50V
C23	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V
C24	1-164-039-11	CERAMIC	3PF	5%	50V
C25	1-102-285-91	CERAMIC	10PF	0.5PF	50V
C26	1-130-726-00	FILM	0.0015uF	5%	63V
C27	1-137-015-11	FILM	0.0047uF	5%	63V
C28	1-110-342-11	FILM	390PF	5%	63V
C29	1-162-204-31	CERAMIC	16PF	5%	50V
C31	1-162-294-31	CERAMIC	0.001uF	10%	50V
C32	1-162-294-31	CERAMIC	0.001uF	10%	50V
C33	1-162-294-31	CERAMIC	0.001uF	10%	50V
C34	1-124-903-11	ELECT	1uF	20%	50V
C35	1-124-907-11	ELECT	10uF	20%	50V
C36	1-126-233-11	ELECT	22uF	20%	50V
C37	1-162-286-31	CERAMIC	220PF	10%	50V
C38	1-161-379-00	CERAMIC	0.01uF	20%	25V
C101	1-162-282-31	CERAMIC	100PF	10%	50V
C102	1-124-463-00	ELECT	0.1uF	20%	50V
C103	1-124-902-00	ELECT	0.47uF	20%	50V
C104	1-162-282-31	CERAMIC	100PF	10%	50V
C105	1-162-292-31	CERAMIC	680PF	10%	50V
C106	1-162-294-31	CERAMIC	0.001uF	10%	50V
C107	1-124-477-11	ELECT	47uF	20%	25V
C108	1-162-840-11	CERAMIC	0.012uF	10%	16V
C109	1-124-927-11	ELECT	4.7uF	20%	100V
C110	1-162-832-11	CERAMIC	0.0027uF	10%	16V
C111	1-162-290-31	CERAMIC	470PF	10%	50V
C112	1-124-902-00	ELECT	0.47uF	20%	50V
C113	1-162-294-31	CERAMIC	0.001uF	10%	50V
C114	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C115	1-162-293-31	CERAMIC	820PF	10%	50V
C130	1-124-902-00	ELECT	0.47uF	20%	50V
C131	1-162-294-31	CERAMIC	0.001uF	10%	50V
C132	1-124-927-11	ELECT	4.7uF	20%	100V
C133	1-124-902-00	ELECT	0.47uF	20%	50V
C134	1-162-294-31	CERAMIC	0.001uF	10%	50V
C201	1-162-282-31	CERAMIC	100PF	10%	50V
C202	1-124-463-00	ELECT	0.1uF	20%	50V
C203	1-124-902-00	ELECT	0.47uF	20%	50V
C204	1-162-282-31	CERAMIC	100PF	10%	50V
C205	1-162-292-31	CERAMIC	680PF	10%	50V
C206	1-162-294-31	CERAMIC	0.001uF	10%	50V
C207	1-124-477-11	ELECT	47uF	20%	25V
C208	1-162-840-11	CERAMIC	0.012uF	10%	16V
C209	1-124-927-11	ELECT	4.7uF	20%	100V

MAIN

Ref. No.	Part No.	Description			Remark
C210	1-162-832-11	CERAMIC	0.0027uF	10%	16V
C211	1-162-290-31	CERAMIC	470PF	10%	50V
C212	1-124-902-00	ELECT	0.47uF	20%	50V
C213	1-162-294-31	CERAMIC	0.001uF	10%	50V
C214	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C215	1-162-293-31	CERAMIC	820PF	10%	50V
C230	1-124-902-00	ELECT	0.47uF	20%	50V
C231	1-162-294-31	CERAMIC	0.001uF	10%	50V
C232	1-124-927-11	ELECT	4.7uF	20%	100V
C233	1-124-902-00	ELECT	0.47uF	20%	50V
C234	1-162-294-31	CERAMIC	0.001uF	10%	50V
C301	1-124-902-00	ELECT	0.47uF	20%	50V
C302	1-162-294-31	CERAMIC	0.001uF	10%	50V
C303	1-124-903-11	ELECT	1uF	20%	50V
C304	1-124-927-11	ELECT	4.7uF	20%	100V
C310	1-124-443-00	ELECT	100uF	20%	10V
C311	1-124-907-11	ELECT	10uF	20%	50V
C312	1-124-907-11	ELECT	10uF	20%	50V
C313	1-124-927-11	ELECT	4.7uF	20%	100V
C314	1-124-907-11	ELECT	10uF	20%	50V
C315	1-124-472-11	ELECT	470uF	20%	10V
C316	1-126-176-11	ELECT	220uF	20%	10V
C320	1-124-443-00	ELECT	100uF	20%	10V
C321	1-162-282-31	CERAMIC	100PF	10%	50V
C322	1-161-050-00	CERAMIC	0.0082uF	10%	16V
C323	1-137-366-11	FILM	0.0022uF	5%	50V
C330	1-124-927-11	ELECT	4.7uF	20%	100V
C331	1-124-925-11	ELECT	2.2uF	20%	100V
C332	1-124-472-11	ELECT	470uF	20%	10V
		< FILTER >			
CF1	1-567-166-00	FILTER, CERAMIC			
CF2	1-567-166-00	FILTER, CERAMIC			
CF3	1-567-670-11	FILTER, CERAMIC			
		< CONNECTOR >			
* CNJ303	1-568-189-11	SOCKET, CONNECTOR 11P			
CNP301	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP302	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
* CNP304	1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P			
		< TRIMMER >			
CT6	1-141-290-41	CAP, VAR FILM TRIMMER			
CT8	1-141-290-41	CAP, VAR FILM TRIMMER			
		< VARIABLE CAPACITOR >			
CV1-4	1-151-637-11	CAP, VARIABLE			
CT1-4					

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D1	8-719-911-19	DIODE 1SS119	
D2	8-719-911-19	DIODE 1SS119	
D3	8-719-980-67	LED MVR3338S	
D5	8-719-911-19	DIODE 1SS119	
D6	8-719-911-19	DIODE 1SS119	
D7	8-719-911-19	DIODE 1SS119	
D8	8-719-911-19	DIODE 1SS119	
D9	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D307	8-719-911-19	DIODE 1SS119	
D308	8-719-911-19	DIODE 1SS119	
		< FILTER >	
FL1	1-236-711-21	FILTER, BAND PASS	
		< IC >	
IC1	8-752-050-20	IC CXA1238S	
IC301	8-759-048-59	IC BA3423S	
IC302	8-752-055-84	IC CXA1352AS	
		< JACK >	
J301	1-563-716-21	JACK, PIN 2P (CD/LINE IN)	
J302	1-563-330-11	JACK (MIX MIC)	
		< COIL >	
L1	1-422-317-31	COIL, AIR-CORE	
* L2	1-422-230-11	COIL, AIR-CORE (E)	
L3	1-402-507-11	ANTENNA, FERRITE-ROD (MW)	
L4	1-406-253-11	COIL (OSC)	
L5	1-402-390-11	COIL (ANT)	
L6	1-406-247-11	COIL (OSC)	
L7	1-402-539-11	COIL (ANT)	
L8	1-406-221-11	COIL, SW 2 OSC	
L11	1-410-315-21	INDUCTOR 0.68uH	
L12	1-410-314-11	INDUCTOR 0.47uH	
L21	1-460-205-11	COIL (WITH CORE) (Saudi Arabia)	
		< TRANSISTOR >	
Q1	8-729-281-52	TRANSISTOR 2SC1815-Y	
Q2	8-729-206-20	TRANSISTOR RN1202	
Q301	8-729-206-31	TRANSISTOR RN2202	
Q302	8-729-206-28	TRANSISTOR RN1210	
Q320	8-729-194-57	TRANSISTOR 2SC945-P	

MAIN MD

Ref. No.	Part No.	Description				Remark
		< RESISTOR >				
R1	1-249-398-11	CARBON	27	5%	1/4W	F
R2	1-249-441-11	CARBON	100K	5%	1/4W	
R3	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R4	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-249-415-11	CARBON	680	5%	1/4W	F
R6	1-249-405-11	CARBON	100	5%	1/4W	F
R7	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R8	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R9	1-249-415-11	CARBON	680	5%	1/4W	F
R10	1-247-887-00	CARBON	220K	5%	1/4W	
R11	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R12	1-247-887-00	CARBON	220K	5%	1/4W	
R13	1-249-429-11	CARBON	10K	5%	1/4W	
R14	1-249-441-11	CARBON	100K	5%	1/4W	
R15	1-249-417-11	CARBON	1K	5%	1/4W	F
R16	1-249-417-11	CARBON	1K	5%	1/4W	F
R18	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R19	1-249-434-11	CARBON	27K	5%	1/4W	
R20	1-249-429-11	CARBON	10K	5%	1/4W	
R21	1-249-429-11	CARBON	10K	5%	1/4W	
R23	1-249-407-11	CARBON	150	5%	1/4W	F
R101	1-249-437-11	CARBON	47K	5%	1/4W	
R102	1-249-437-11	CARBON	47K	5%	1/4W	
R104	1-249-437-11	CARBON	47K	5%	1/4W	
R105	1-249-437-11	CARBON	47K	5%	1/4W	
R106	1-249-417-11	CARBON	1K	5%	1/4W	F
R107	1-249-405-11	CARBON	100	5%	1/4W	F
R108	1-249-405-11	CARBON	100	5%	1/4W	F
R109	1-249-406-11	CARBON	120	5%	1/4W	F
R110	1-247-889-00	CARBON	270K	5%	1/4W	
R111	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R112	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R113	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R131	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R201	1-249-437-11	CARBON	47K	5%	1/4W	
R202	1-249-437-11	CARBON	47K	5%	1/4W	
R204	1-249-437-11	CARBON	47K	5%	1/4W	
R205	1-249-437-11	CARBON	47K	5%	1/4W	
R206	1-249-417-11	CARBON	1K	5%	1/4W	F
R207	1-249-405-11	CARBON	100	5%	1/4W	F
R208	1-249-405-11	CARBON	100	5%	1/4W	F
R209	1-249-406-11	CARBON	120	5%	1/4W	F
R210	1-247-889-00	CARBON	270K	5%	1/4W	
R211	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R212	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R213	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R231	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R301	1-249-417-11	CARBON	1K	5%	1/4W	F
R302	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R310	1-247-903-00	CARBON	1M	5%	1/4W	
R311	1-249-435-11	CARBON	33K	5%	1/4W	
R312	1-249-435-11	CARBON	33K	5%	1/4W	
R313	1-249-435-11	CARBON	33K	5%	1/4W	
R314	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R315	1-249-389-11	CARBON	4.7	5%	1/4W	F
R316	1-249-429-11	CARBON	10K	5%	1/4W	
R320	1-249-406-11	CARBON	120	5%	1/4W	F
R321	1-249-437-11	CARBON	47K	5%	1/4W	
R322	1-249-390-11	CARBON	5.6	5%	1/6W	F
R330	1-247-884-11	CARBON	160K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV1	1-238-601-11	RES, ADJ, CARBON 22K				
		< SWITCH >				
S1	1-571-503-11	SWITCH, LEVER SLIDE (BAND)				
S301	1-572-771-11	SWITCH, LEVER SLIDE (FUNCTION)				
S302	1-572-325-11	SWITCH, SLIDE (RECORD/PLAYBACK)				
		< TRANSFORMER >				
T1	1-404-158-11	COIL, IFT				
T320	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR				
		< VARIABLE RESISTOR >				
VR1	1-241-380-11	RES, VAR, CARBON 100K(FINE TUNING)				
VR302	1-241-935-11	RES, VAR, SLIDE 50KX5 (GRAPHIC EQUALIZER)				

****

* 1-644-161-11 MD BOARD
****

< CONNECTOR >

* CNP311 1-566-969-11 HOUSING, CONNECTOR(PC BOARD)7P

< SWITCH >

S401 1-571-330-21 SWITCH, LEAF (PLAY/STOP (DECK A))
S402 1-571-890-11 SWITCH, LEAF (HIGH SPEED (DECK A))
S403 1-571-890-11 SWITCH, LEAF (PLAY/STOP (DECK B))
S404 1-571-890-11 SWITCH, LEAF (PLAY (DECK B))

****

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

POWER AMP

Ref. No.	Part No.	Description			Remark
*	A-3262-413-A	POWER AMP BOARD, COMPLETE			
		**********			
*	3-379-609-01	TERMINAL, POWER			
		< CAPACITOR >			
C151	1-162-294-31	CERAMIC	0.001uF	10%	50V
C152	1-162-290-31	CERAMIC	470PF	10%	50V
C153	1-124-477-11	ELECT	47uF	20%	25V
C154	1-126-176-11	ELECT	220uF	20%	10V
C155	1-124-477-11	ELECT	47uF	20%	25V
C156	1-124-443-00	ELECT	100uF	20%	10V
C157	1-124-443-00	ELECT	100uF	20%	10V
C158	1-124-477-11	ELECT	47uF	20%	25V
C159	1-130-497-00	MYLAR	0.15uF	5%	50V
C160	1-130-497-00	MYLAR	0.15uF	5%	50V
C161	1-161-494-00	CERAMIC	0.022uF		25V
C162	1-161-494-00	CERAMIC	0.022uF		25V
C251	1-162-294-31	CERAMIC	0.001uF	10%	50V
C252	1-162-290-31	CERAMIC	470PF	10%	50V
C253	1-124-477-11	ELECT	47uF	20%	25V
C254	1-126-176-11	ELECT	220uF	20%	10V
C255	1-124-477-11	ELECT	47uF	20%	25V
C256	1-124-443-00	ELECT	100uF	20%	10V
C257	1-124-443-00	ELECT	100uF	20%	10V
C258	1-124-477-11	ELECT	47uF	20%	25V
C259	1-130-497-00	MYLAR	0.15uF	5%	50V
C260	1-130-497-00	MYLAR	0.15uF	5%	50V
C261	1-161-494-00	CERAMIC	0.022uF		25V
C262	1-161-494-00	CERAMIC	0.022uF		25V
C350	1-124-907-11	ELECT	10uF	20%	50V
C351	1-124-887-00	ELECT	3300uF	20%	16V
C352	1-124-927-11	ELECT	4.7uF	20%	100V
C353	1-126-176-11	ELECT	220uF	20%	10V
C354	1-124-472-11	ELECT	470uF	20%	10V
C401	1-124-927-11	ELECT	4.7uF	20%	100V
		< CONNECTOR >			
* CNJ311	1-566-972-11	PIN, CONNECTOR (PC BOARD) 7P			
		< CONNECTOR >			
* CNP303	1-568-190-11	PIN, CONNECTOR 11P			
CNP310	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP320	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
		< DIODE >			
D350	8-719-980-67	LED	MVR3338S		
⚠D351	8-719-109-97	DIODE	RD6.8ES-B2		
D352	8-719-911-19	DIODE	1SS119		
D353	8-719-911-19	DIODE	1SS119		
⚠D401	8-719-110-06	DIODE	RD8.2ES-B1		
D402	8-719-911-19	DIODE	1SS119		
		< IC >			
⚠IC101	8-759-060-21	IC	LA4598		
⚠IC201	8-759-060-21	IC	LA4598		
		< JACK >			
J350	1-566-891-11	JACK (PHONES)			
		< TRANSISTOR >			
⚠Q350	8-729-195-23	TRANSISTOR	2SA952-K2		
Q351	8-729-194-57	TRANSISTOR	2SC945-P		
⚠Q401	8-729-400-81	TRANSISTOR	2SD1266-Q		
⚠Q402	8-729-195-23	TRANSISTOR	2SA952-K2		
Q403	8-729-206-20	TRANSISTOR	RN1202		
Q404	8-729-115-30	TRANSISTOR	2SK105A-30		
Q405	8-729-206-20	TRANSISTOR	RN1202		
Q406	8-729-206-20	TRANSISTOR	RN1202		
		< RESISTOR >			
R151	1-249-426-11	CARBON	5.6K	5%	1/4W
R152	1-249-426-11	CARBON	5.6K	5%	1/4W
R153	1-249-430-11	CARBON	12K	5%	1/4W
R154	1-249-408-11	CARBON	180	5%	1/4W F
R155	1-249-408-11	CARBON	180	5%	1/4W F
R156	1-249-432-11	CARBON	18K	5%	1/4W
⚠R157	1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R158	1-249-385-11	CARBON	2.2	5%	1/6W F
R159	1-249-417-11	CARBON	1K	5%	1/4W F
R160	1-249-405-11	CARBON	100	5%	1/4W F
R251	1-249-426-11	CARBON	5.6K	5%	1/4W
R252	1-249-426-11	CARBON	5.6K	5%	1/4W
R253	1-249-430-11	CARBON	12K	5%	1/4W
R254	1-249-408-11	CARBON	180	5%	1/4W F
R255	1-249-408-11	CARBON	180	5%	1/4W F
R256	1-249-432-11	CARBON	18K	5%	1/4W
⚠R257	1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R258	1-249-385-11	CARBON	2.2	5%	1/6W F
R259	1-249-417-11	CARBON	1K	5%	1/4W F
R260	1-249-405-11	CARBON	100	5%	1/4W F
⚠R351	1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R352	1-249-416-11	CARBON	820	5%	1/4W F
R353	1-249-410-11	CARBON	270	5%	1/4W F
R354	1-249-437-11	CARBON	47K	5%	1/4W
R355	1-249-415-11	CARBON	680	5%	1/4W F

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

POWER AMP

POWER SUPPLY | TERMINAL(A) | TERMINAL(B) | VR

Ref. No.	Part No.	Description				Remark
R356	1-249-426-11	CARBON	5.6K	5%	1/4W	
R357	1-249-415-11	CARBON	680	5%	1/4W	F
R358	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R359	1-249-408-11	CARBON	180	5%	1/4W	F
⚠R401	1-217-639-00	FUSIBLE	2.2	5%	1/4W	F
R402	1-249-407-11	CARBON	150	5%	1/4W	F
R403	1-249-404-00	CARBON	82	5%	1/4W	
R404	1-249-437-11	CARBON	47K	5%	1/4W	
R405	1-249-417-11	CARBON	1K	5%	1/4W	F
R406	1-249-437-11	CARBON	47K	5%	1/4W	
R407	1-249-424-11	CARBON	3.9K	5%	1/4W	F
R408	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		< VARIABLE RESISTOR >				
RV401	1-230-494-11	RES, ADJ, CARBON 1K				
**********						
*	1-644-162-11	POWER SUPPLY BOARD				
		**********				
	1-533-217-31	HOLDER, FUSE				
		< CAPACITOR >				
C901	1-101-006-00	CERAMIC	0.047uF		50V	
C905	1-101-006-00	CERAMIC	0.047uF		50V	
C906	1-124-887-00	ELECT	3300uF	20%	16V	
		< DIODE >				
⚠D901	8-719-979-32	DIODE RL202-M11				
⚠D902	8-719-979-32	DIODE RL202-M11				
⚠D903	8-719-979-32	DIODE RL202-M11				
⚠D904	8-719-979-32	DIODE RL202-M11				
		< FUSE >				
⚠F901	1-532-235-00	FUSE, TIME LAG (T315mA/250V)				
		< JACK >				
⚠J901	1-526-838-11	INLET, AC 2P (AC IN ～)				
		< HOLDER >				
* KH901	1-573-287-11	HOLDER, CABLE 2P				
* KH902	1-573-287-11	HOLDER, CABLE 2P				
		< SWITCH >				
⚠S901	1-552-921-00	SWITCH, POWER (VOLTAGE CHANGE)				

Ref. No.	Part No.	Description	Remark
		< TRANSFORMER >	
⚠T901	1-449-201-11	TRANSFORMER, POWER	
**********			
*	1-644-164-11	TERMINAL (A) BOARD	
		**********	
		< HOLDER >	
* KH904	1-573-287-11	HOLDER, CABLE 2P	
**********			
*	1-644-165-11	TERMINAL (B) BOARD	
		**********	
*	3-380-282-01	PLATE, CONTACT	
		< HOLDER >	
* KH903	1-573-287-11	HOLDER, CABLE 2P	
**********			
*	1-644-158-11	VR BOARD	
		********	
		< CONNECTOR >	
* CNJ304	1-568-452-11	PIN, CONNECTOR (PC BOARD) 3P	
		< VARIABLE RESISTOR >	
VR301	1-241-374-11	RES, VAR, CARBON 50K (VOLUME)	
**********			
		MISCELLANEOUS	
		**********	
ANT1	1-501-480-11	ANTENNA, TELESCOPIC	
HE401	1-543-525-11	HEAD, MAGNETIC (ERASE)	
HP401	1-543-714-11	HEAD, MAGNETIC (PB)	
HRP401	1-543-628-11	HEAD, MAGNETIC (REC/PB)	
M401	X-4920-924-1	MOTOR ASSY	
SP101	1-504-134-11	SPEAKER (8CM)	
SP201	1-504-134-11	SPEAKER (8CM)	
**********			

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Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		******	
⚠	1-551-983-00	CORD, POWER (E23)	
⚠	1-555-234-00	CORD, POWER (E12, Saudi Arabia)	
⚠	1-569-007-11	ADAPTER, CONVERSION 2P (E23)	
⚠	1-569-008-11	ADAPTER, CONVERSION 2P (Saudi Arabia)	
*	3-379-552-01	CUSHION	
*	3-379-553-01	INDIVIDUAL CARTON	
*	3-704-301-01	BAG (STANDARD), PROTECTION	
	3-755-469-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ SPANISH/GERMAN)	

****

****
HARDWARE LIST
****

#1	7-685-648-79	SCREW, TAPPING +BV 3X12
#2	7-621-770-67	SCREW +P 2.6X6
#3	7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT
#4	7-682-548-04	SCREW +BVTT 3X8 (S)
#5	7-682-548-09	SCREW +BVTT 3X8 (S)
#6	7-682-147-04	SCREW +P 3X6
#7	7-685-132-19	SCREW +P 2.6X5 TYPE2 NON-SLIT
#8	7-685-144-19	SCREW +P 3X5 TYPE2 NON-SLIT

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